LAPORAN PRAKTIKUM 4

Mata Kuliah Pemograman Berorientasi Objek



Oleh:

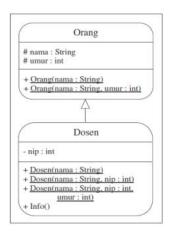
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2022

Praktikum 4 PBO

1. Buatlah program berdasarkan UML berikut



Source Code

• PHP

```
Prak4No1.php X
Prak4No1.php > PHP Intelephense > ♦ html > ♦ body > ♦ div.container
  1 <!DOCTYPE html>
       <html lang="id">
           <link rel="stylesheet" type="text/css" href="no1.css">
           <title>Praktikum 4-No.1</title>
      <div class="container">
       <h2>Soal 1</h2>
            class Orang {
              protected $nama,$umur;
               public function __construct($nama,$umur){
$this->nama = $nama;
                $this->umur = $umur;
            class Dosen extends Orang {
               private $nip;
                public function __construct($nama, $umur, $nip) {
    $this->nip = $nip;
                    parent::__construct($nama, $umur);
```

• CSS

```
Real Prak4No1.php
                   # no1.css
                              X
# no1.css > 😫 body
       body {
           align-items: center;
           background-color: ■aliceblue;
       h2{
           text-align: center;
       .container{
           margin: auto;
           text-align: center;
           height: 180px;
 12
           width: 350px;
 13
           border: 2px solid □black;
```

• Output



• Analisis

Menggunakan kata kunci super di konstruktor dan method, pada program tersebut masing-masing ditambahkan konstruktor dengan paramaternya.

2. Buatlah Program berdasarkan UML dibawah ini

```
RerataNilai
+ int average(int, int)
+ double average(double, double)
+ int average(int, int, int)
```

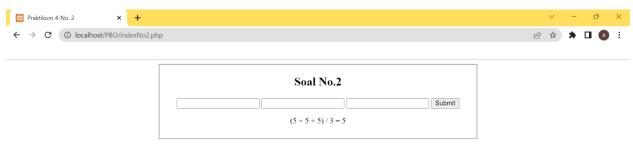
Source Code

PHP

```
Prak4No2.php X
Prak4No2.php > ...
           2021 B -->
          class RerataNilai {
             protected $value, $value2;
              public function __construct($value, $value2){
                  $this->value = $value;
                  $this->value2 = $value2;
              public function average($value3 = 0){
                  if ($value3 == 0) {
                      $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
                      return $str . ($this->value += $this->value2 ) / 2;
                      $str ='(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ') / 3 = ';
                      return $str . ($this->value += $this->value2 += $value3 ) / 3;
26
          class RerataNilai2 extends RerataNilai{
              public function __construct($value, $value2){
                  parent::__construct($value, $value2);
              public function average($value3 = 0){
                 return parent::average($value3);
```

• CSS

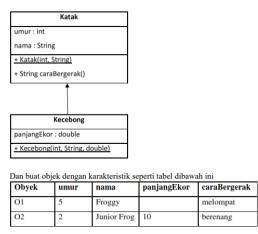
• Output



• Analisis

Di atas adalah program dengan nama method boleh Sama, Tapi Jumlah parameter mesti berbeda nilai yang di Return harus mempunyai tipe yang sama.

3. Buatlah Program berdasarkan UML dibawah ini



Source Code

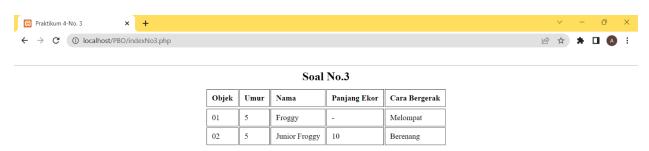
PHP

```
ndexNo3.php ×
m indexNo3.php > 分 html > 分 body > 分 table > 分 tbody
       require_once 'Prak4No3.php';
     <html lang="id">
       <link rel="stylesheet" type="text/css" href="Prak4No3.css">
       <title>Praktikum 4-No. 3</title>
     <h2><center>Soal No.3</center></h2>
       Objek
       Umur
        Nama
        Panjang Ekor
       Cara Bergerak
       01
       <?=$katak->getUmur() ?> 
       <?=$katak->getnama() ?> 
        <?=$katak->carabergerak() ?> 
        02
       <?=$kecebong->getUmur() ?>
       <?=$kecebong->getNama() ?>
       <?=$kecebong->getpanjangekor() ?>
        <?=$kecebong->carabergerak() ?>
```

```
Prak4No3.php X
protected $umur, $nama;
         public function __construct($umur, $nama){
    $this->umur = $umur;
             $this->nama = $nama;
        public function getUmur(){
             return $this->umur;
         public function getNama(){
            return $this->nama;
         public function caraBergerak(){
             return 'Melompat';
     class Kecebong extends Katak{
         private $panjangEkor;
         public function __construct($umur, $nama, $ekor){
         $this->panjangEkor = $ekor;
         parent::__construct($umur, $nama);
         public function getpanjangekor(){
           return $this->panjangEkor;
         public function carabergerak(){
            return 'Berenang';
     $katak = new katak(5, 'Froggy');
     $kecebong = new kecebong(5, 'Junior Froggy', 10);
```

• CSS

• Output



Analisis

Keyword super tidak bisa digunakan secara langsung didalam method static seperti pada method main, jadi harus di panggil pada method void atau return terlebih dahulu lalu panggil pada method main/static.